



MIAMI-DADE COUNTY
DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY
AFFAIRS (PERA)
BOARD AND CODE ADMINISTRATION DIVISION
NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/pera/

Raynor Garage Doors
1101 East River Road, P.O. Box 448
Dixon, IL 61021

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County PERA-Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. PERA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Steelform Standard 24 and 20 Gauge Steel Sectional Garage Door up to 18'-2" wide

APPROVAL DOCUMENT: Drawing No. P-3313, titled "Spec, Wind Load Steelform Standard 24 and 20 Gauge", sheets 1 through 4 of 4, dated 02/25/2010, with revision C dated 01/18/2011, prepared by the manufacturer, signed and sealed by Richard A. Baumann, P.E., bearing the Miami-Dade County Product Control revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: A permanent label with the manufacturer's name or logo, manufacturing address, model number, the positive and negative design pressure rating, indicate impact rated if applicable, installation instruction drawing reference number, approval number (NOA), the applicable test standards, and the statement reading 'Miami-Dade County Product Control Approved' is to be located on the door's side track, bottom angle, or inner surface of a panel.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA # 10-0921.06 and consists of this page 1 and evidence page E-1, as well as approval document mentioned above.

The submitted documentation was reviewed by Carlos M. Utrera, P.E.



[Signature]
07/25/2012

NOA No. 12-0517.17
Expiration Date: March 10, 2016
Approval Date: August 2, 2012
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS “Submitted under NOA # 10-0921.06”

1. Drawing No **P-3313**, titled “Spec, Wind Load Steelform Standard 24 and 20 Gauge”, sheets 1 through 4 of 4, dated 02/25/2010, with revision C dated 01/18/2011, prepared by the manufacturer, signed and sealed by Richard A. Baumann, P.E.

B. TESTS “Submitted under NOA # 10-0921.06”

1. Test reports on 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
Along with marked-up drawings and installation diagram of 110”, 146” and 218” Wide Steelform Sectional Garage Doors, prepared by Hurricane Test Laboratory, LLC, Test Report No. **G493-0301-10**, dated 08/10/2010, signed and sealed by Vinu J. Abraham, P.E.
2. Test report on Forced Entry Resistance Test, per FBC 2411 3.2.1, TAS 202-94 of two (one TradeMark and one Showcase) 16’x 7’ Sectional Garage Doors, prepared by Hurricane Test Laboratory, LLC, Test Report No. **G493-0706-10**, dated 08/10/2010, signed and sealed by Vinu J. Abraham, P.E.
3. Test report on Tensile Test per ASTM E8, of steel sheet, prepared by Certified Testing Laboratories, Test Report No. **0205T**, dated 03/30/2010, signed and sealed by Ramesh Patel, P.E.
4. Test report on Salt Spray per ASTM B117-90 of painted G40 galvanized painted steel, prepared by Wendler Engineering Services, Inc., dated 09/17/2010, signed and sealed by Richard A. Baumann, P.E.

C. CALCULATIONS “Submitted under NOA # 10-0921.06”

1. Jamb attachment verification calculations, prepared by Wendler Engineering Services, Inc., dated 09/16/2010, signed and sealed by Richard A. Baumann, P.E.

D. QUALITY ASSURANCE

1. Miami-Dade Department of Permitting, Environment, and Regulatory Affairs (PERA)

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS

1. Statement letter of code conformance to 2010 FBC, issued by Wendler Engineering Services, Inc., dated 05/14/2012, signed and sealed by Richard A. Baumann, P.E.

“Submitted under NOA # 10-0921.06”

2. Statement letter of code conformance to FBC 2007, issued by Wendler Engineering Services, Inc., dated 09/17/2010, signed and sealed by Richard A. Baumann, P.E.
3. Statement letter of no financial interest, issued by Wendler Engineering Services, Inc., dated 09/17/2010, signed and sealed by Richard A. Baumann, P.E.

 07/25/2012

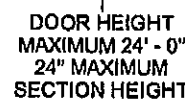
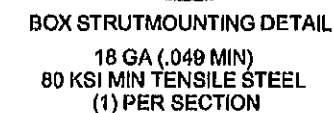
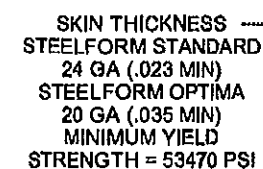
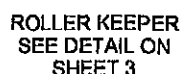
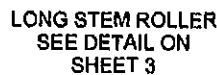
Carlos M. Utrera, P.E.

Product Control Examiner

NOA No. 12-0517.17

Expiration Date: March 10, 2016

Approval Date: August 2, 2012



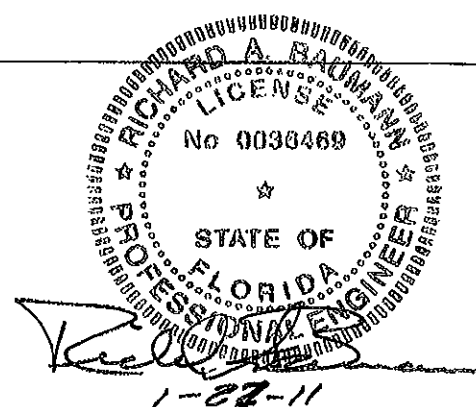
TRACK AND COUNTER BALANCE ASSEMBLIES
WERE OMITTED FROM ALL DETAILS ON THIS
PAGE FOR CLARITY. SEE SHEET 2 FOR
TRACK AND COUNTER BALANCE DETAILS


----- 18' - 2" MAX DOOR WIDTH -----
SEE SHEET 2 FOR OTHER DOOR WIDTHS

DOORS TESTED PER TAS 202
FOR
STATIC AIR PRESSURE


PER TAS 201, TAS 203
FOR
LARGE MISSILE IMPACT AND
CYCLIC WIND PRESSURE

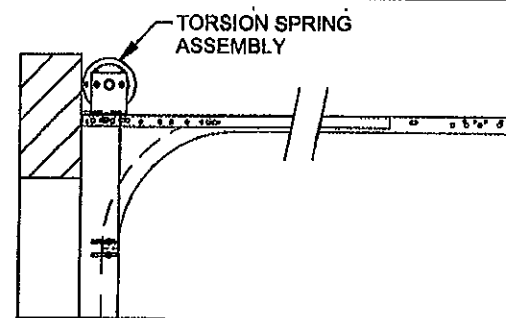
DOOR WIDTH	DESIGN LOAD	
9' - 2"	+ 80.0	- 85.8
10' - 2"	+ 80.0	- 74.5
11' - 2"	+ 80.0	- 74.5
12' - 2"	+ 80.0	- 74.5
13' - 2"	+ 40.0	- 52.0
14' - 2"	+ 40.0	- 52.0
15' - 2"	+ 40.0	- 52.0
16' - 2"	+ 40.0	- 52.0
17' - 2"	+ 40.0	- 52.0
18' - 2"	+ 40.0	- 52.0



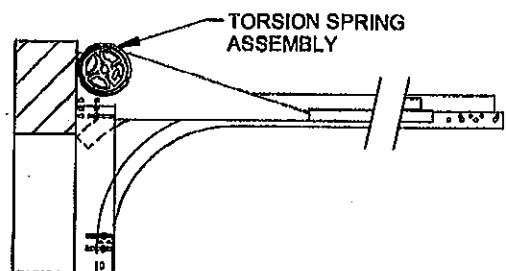
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 12-9517-17
Expiration Date 03/10/2016
By 
Miami Dade Product Control

Approved as complying with the
Florida Building Code
Date 03/10/2011
NOAH 10-0921-06
Miami Dade Product Control
By [Signature]

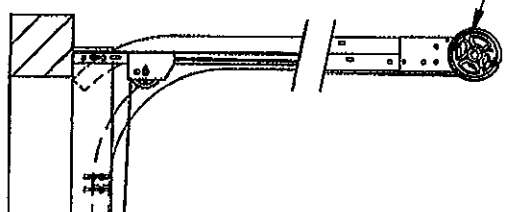
			SCALE: NOTED OR NONE		 RAYNOR GARAGE DOORS <small>DOOR LIFT SYSTEM</small>	TITLE: SPEC, WIND LOAD STEELFORM STANDARD 24 GAUGE AND 20 GAUG		
C	UPDATED PER DADE COUNTY REQUEST	6807.02	01/18/11	DRAWN BY: G.WEDEKIND				
B	RELEASED TO PRODUCTION	6807.01	09/18/10	CHECKED BY: GW				
A	PRELIMINARY RELEASE		02/26/10	DATE: 02/26/10				
REV.	DESCRIPTION	EQD.NO.	DATE	EQD.NO.	6807.01	NO. P-3313	SHEET 1 of 4	REV.



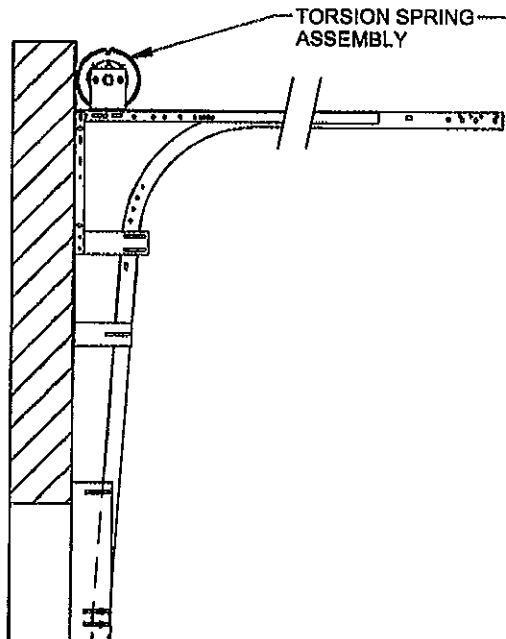
NORMAL HEADROOM TRACK
2" TRACK ANGLE MOUNT SHOWN
3" TRACK ANGLE MOUNT AVAILABLE



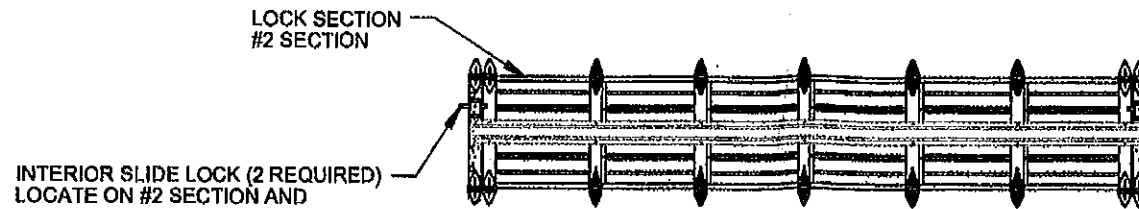
FRONT MOUNT LOW HEADROOM TRACK
2" TRACK ANGLE MOUNT SHOWN
3" TRACK ANGLE MOUNT AVAILABLE



REAR MOUNT LOW HEADROOM TRACK
2" TRACK ANGLE MOUNT SHOWN
3" TRACK ANGLE MOUNT AVAILABLE

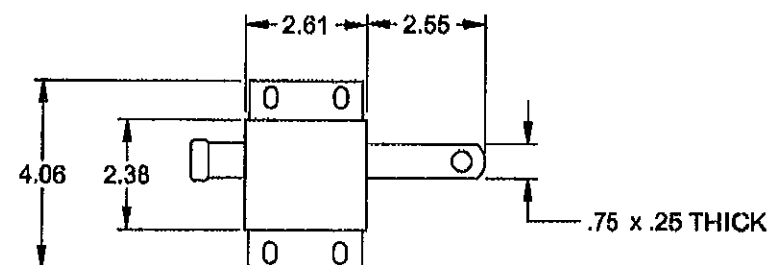


LIFT CLEARANCE TRACK
2" TRACK ANGLE MOUNT SHOWN
3" TRACK ANGLE MOUNT AVAILABLE

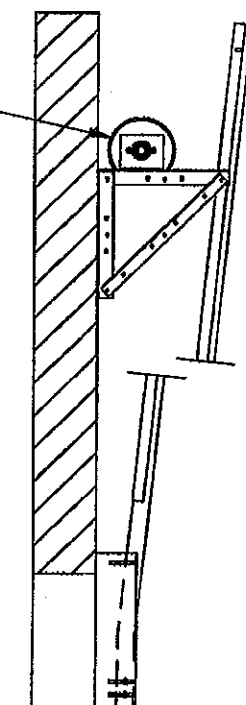
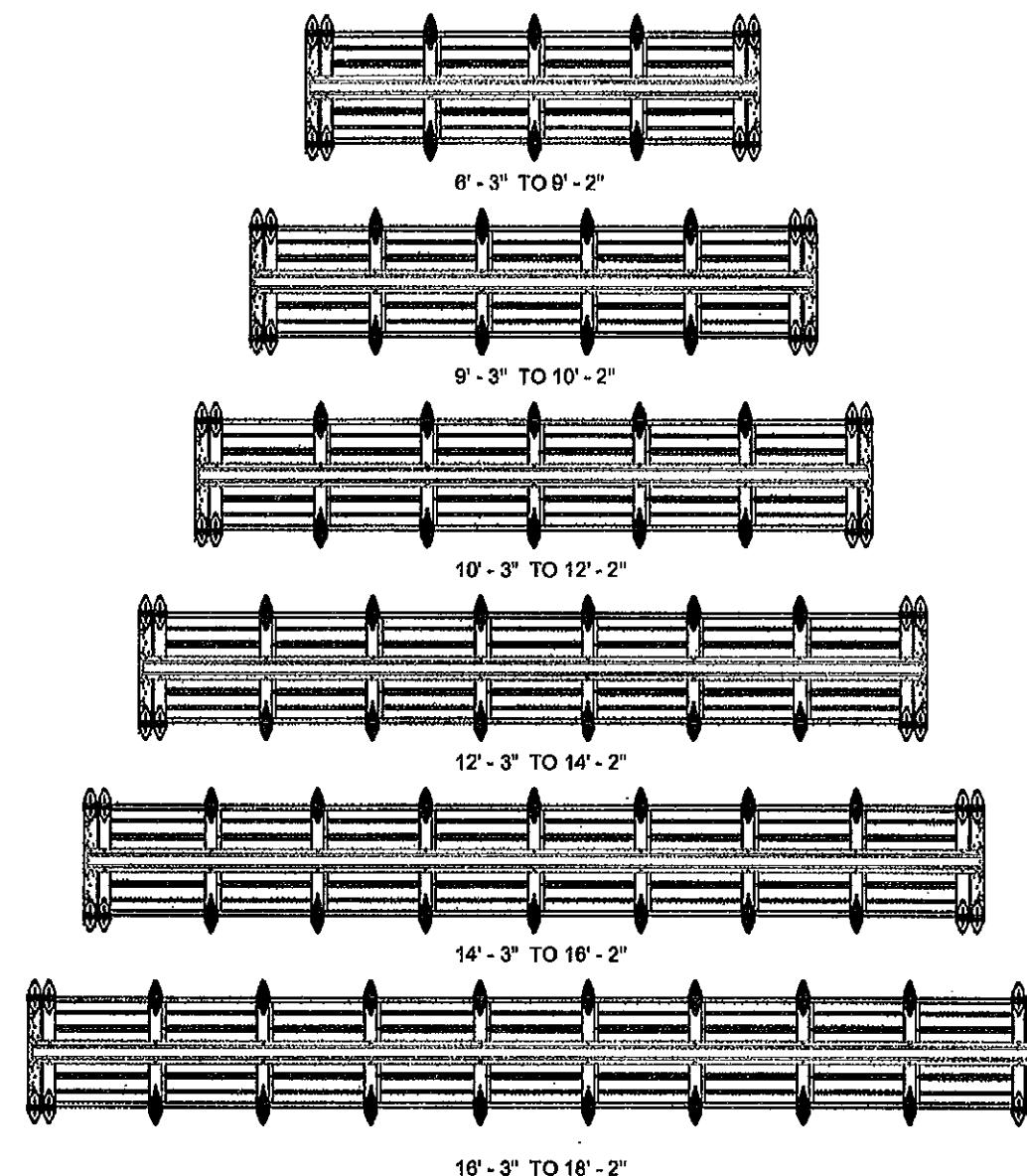


INTERIOR SLIDE LOCK (2 REQUIRED)
LOCATE ON #2 SECTION AND
ATTACHED WITH (4) 1/4" X 5/8"
SELF TAPPING SCREWS.

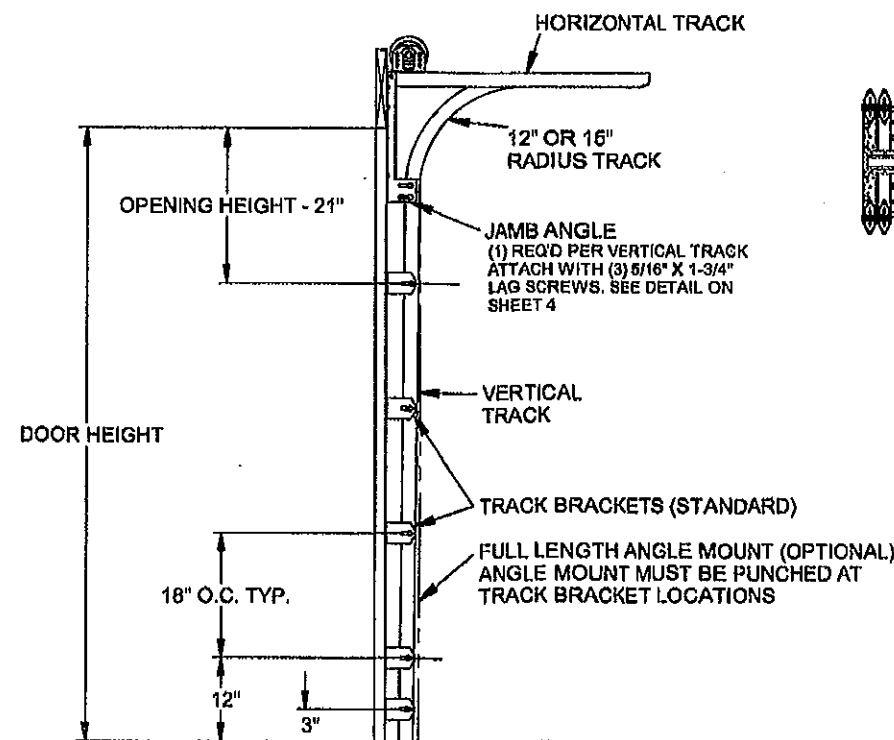
INTERIOR LOCK SECTION DETAIL
12'-2" WIDE SECTION SHOWN
REQUIRED ON ALL DOOR WIDTHS



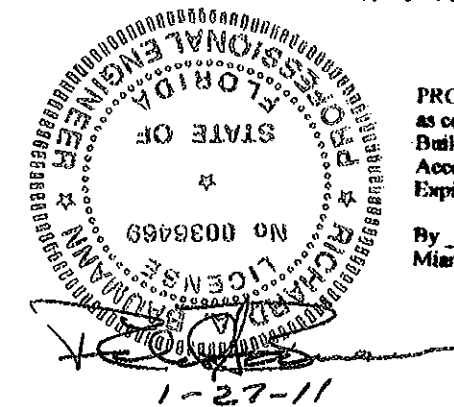
SLIDE LOCK
CASE .088 GALV. STEEL



VERTICAL LIFT TRACK
2" TRACK ANGLE MOUNT SHOWN
3" TRACK ANGLE MOUNT AVAILABLE



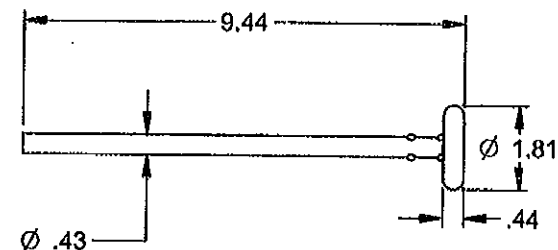
TYPICAL TRACK INSTALLATION



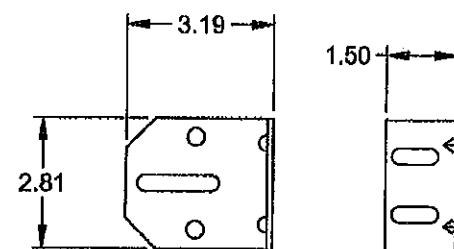
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 12-0517.17
Expiration Date 03/10/2016
By *[Signature]*
Miami Dade Product Control

Approved as complying with the
Florida Building Code
Date 03/10/2011
NOAH 10-0721.06
Miami Dade Product Control
By *[Signature]*

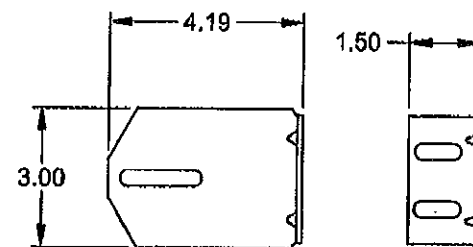
SCALE: NOTED OR NONE	TITLE: SPEC. WIND LOAD
DRAWN BY: G.WEDERKIND	STEEL FORM STANDARD
DESIGNED BY: GW	24 GAUGE AND 20 GAUGE
DATE: 02/26/10	NO. P-3313
REV.:	SHEET 2 of 4
DESCRIPTION:	REV. C
EQN. NO.:	
DATE:	
EQN. NO.:	



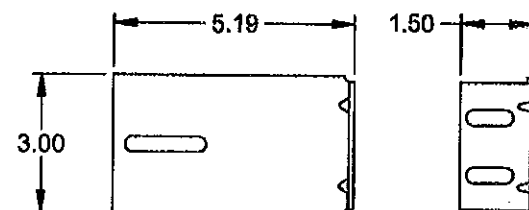
SCALE 1:2
TRACK ROLLER



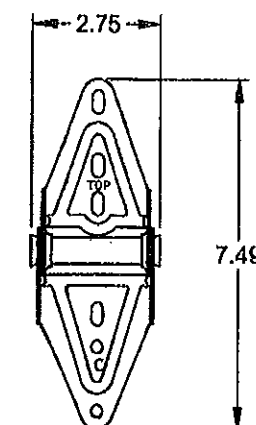
SCALE 1:2
3" TRACK BRACKET
.116 GALV. STEEL



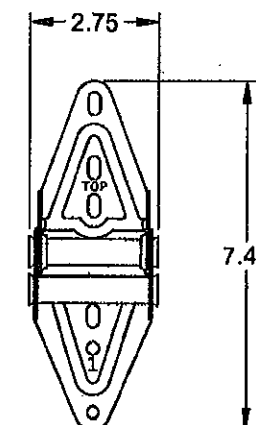
SCALE 1:2
4" TRACK BRACKET
.116 GALV. STEEL



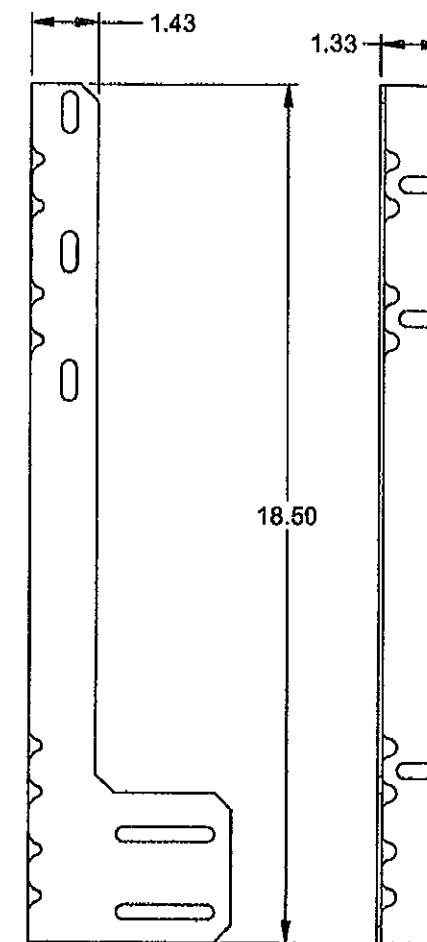
SCALE 1:2
5" TRACK BRACKET
.116 GALV. STEEL



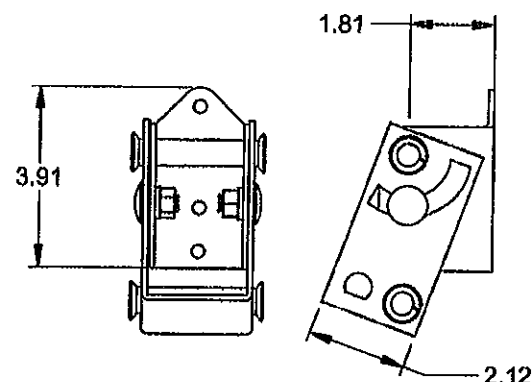
SCALE 1:2
CENTER HINGE
.045 GALV. STEEL



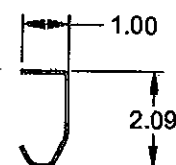
SCALE 1:2
EDGE HINGE
.086 GALV. STEEL



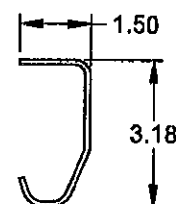
SCALE 1:2
JAMB ANGLE
.078 GALV. STEEL



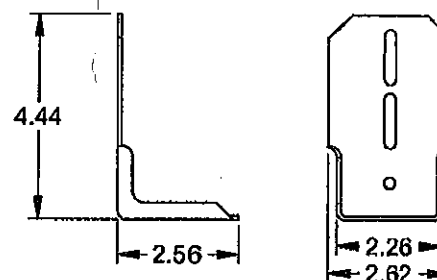
SCALE 1:2
HEAVY COMMERCIAL TOP FIXTURE
.116 GALV. STEEL



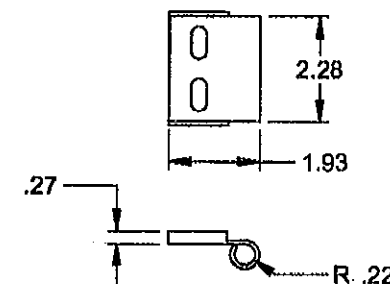
SCALE 1:2
2" TRACK
.086 GALV. STEEL



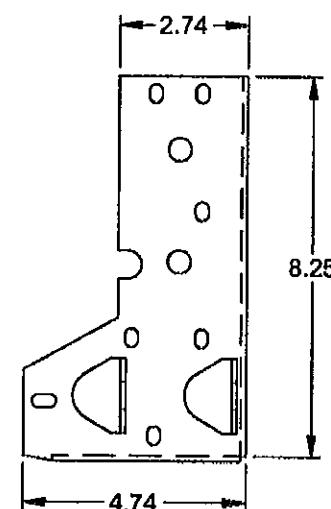
SCALE 1:2
3" TRACK (OPTIONAL)
.105 GALV. STEEL



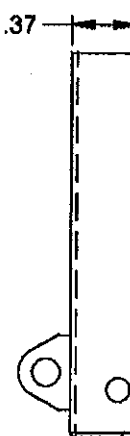
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LIGHT COMMERCIAL TOP FIXTURE
.086 GALV. STEEL



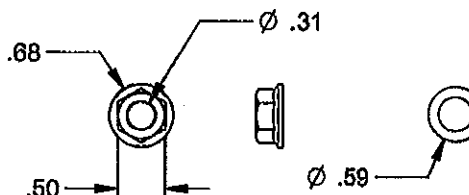
SCALE 1:2
ROLLER CARRIER
.116 GALV. STEEL
ATTACHED TO LIGHT COMMERCIAL TOP FIXTURE
WITH (2) TRACK BOLTS AND WHIZ NUTS



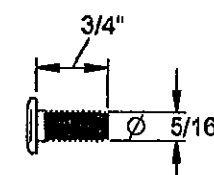
SCALE 1:2
CORNER BRACKET
.116 GALV. STEEL



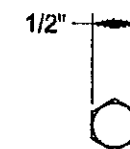
SCALE 1:1
RETAINING NUT



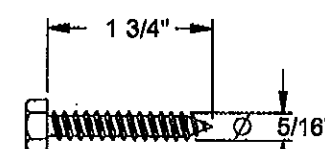
SCALE 1:1
HEX FLANGE NUT



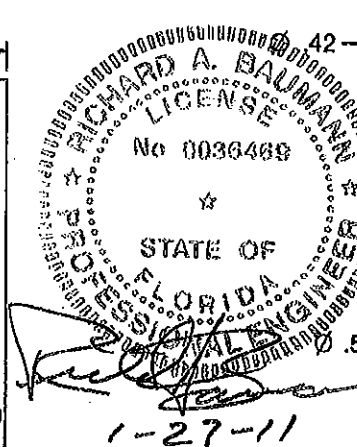
SCALE 1:1
TRACK BOLT



SCALE 1:1
SHEET METAL SCREW



SCALE 1:1
HEX HEAD LAG SCREW



Approved as complying with the
Florida Building Code
Date 03/10/2011
NOAH 10-0921.06
Miami Data Product Control
By *[Signature]*

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 12-0512.17
Expiration Date 03/10/2016
By *[Signature]*
Miami Data Product Control

REV.	DESCRIPTION	EON. NO.	DATE	EON. NO.

SCALE: NOTED OR NONE	RAYNOR GARAGE DOORS 800 444 EAST RIVER ROAD DOUGLASVILLE, GA 30135	TITLE: SPEC. WIND LOAD STEELFORM STANDARD 24 GAUGE AND 20 GAUGE	
DRAWN BY: G.WEDERKIND		NO. P-3313	SHEET 3 of 4
CHECKED BY: GW		REV	C
DATE: 02/28/10			

1" LAP JAMB FOR NEGATIVE LOADS

THREAD CUTTING SCREW
5/16" X 5/8" WITH 5/16"
FLAT WASHER. SEE
JAMB ATTACHMENT
DETAIL FOR SPACING

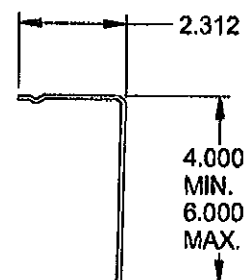
TRACK BOLT 5/16" X 3/4"
SEE DETAIL ON SHEET 3

ANGLE MOUNT
SEE ANGLE MOUNT DETAIL

VERTICAL TRACK
2" TRACK TO BE .086 MIN
GALVANIZED STEEL
3" TRACK TO BE .105 MIN
GALVANIZED STEEL
SEE DETAIL ON SHEET 3

STEEL JAMB

STEEL JAMB
STRUCTURAL STEEL BY
OTHERS, 3/16" MIN
THICKNESS



ANGLE MOUNT
.086 MIN. - .116 MAX
GALVANIZED STEEL
SCALE 1:2

1" LAP JAMB FOR NEGATIVE LOADS

SEE JAMB ATTACHMENT
DETAIL FOR SPACING
HEX HEAD LAG SCREW
5/16" X 1-3/4" WITH 5/16" FLAT
WASHER. (2) PER BRACKET
SEE DETAIL ON THIS SHEET
TRACK BOLT 5/16" X 3/4"
SEE DETAIL ON SHEET 3
ANGLE MOUNT
SEE ANGLE MOUNT DETAIL

VERTICAL TRACK
2" TRACK TO BE .086 MIN
GALVANIZED STEEL
3" TRACK TO BE .105 MIN
GALVANIZED STEEL
SEE DETAIL ON SHEET 3

ANGLE MOUNT ON WOOD JAMB
2" TRACK ANGLE MOUNT SHOWN
3" TRACK ANGLE MOUNT AVAILABLE

MASONRY OR WOOD STRUCTURE
2X6 MINIMUM, TREATED IF
MOUNTED TO MASONRY

1" LAP JAMB FOR NEGATIVE LOADS

SEE JAMB
ATTACHMENT DETAIL
FOR SPACING
HEX HEAD LAG SCREW
5/16" X 1-3/4" WITH 5/16" FLAT
WASHER. (2) PER BRACKET
SEE DETAIL ON SHEET 3
TRACK BOLT 5/16" X 3/4"
SEE DETAIL ON SHEET 3

TRACK BRACKET
SEE SPACING CHART FOR
LOCATIONS. SEE DETAIL
ON SHEET 2
VERTICAL TRACK
2" TRACK TO BE .086 MIN
GALVANIZED STEEL
3" TRACK TO BE .105 MIN
GALVANIZED STEEL
SEE DETAIL ON THIS SHEET

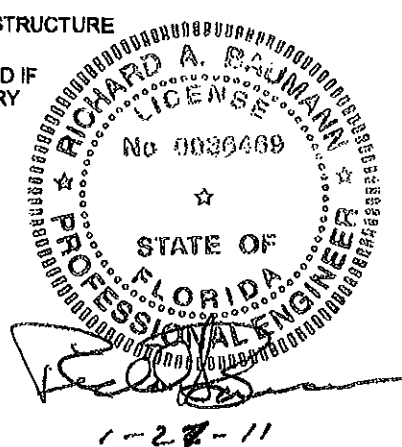
BRACKET MOUNT ON WOOD JAMB

MASONRY OR WOOD STRUCTURE
2X6 MINIMUM, TREATED IF
MOUNTED TO MASONRY

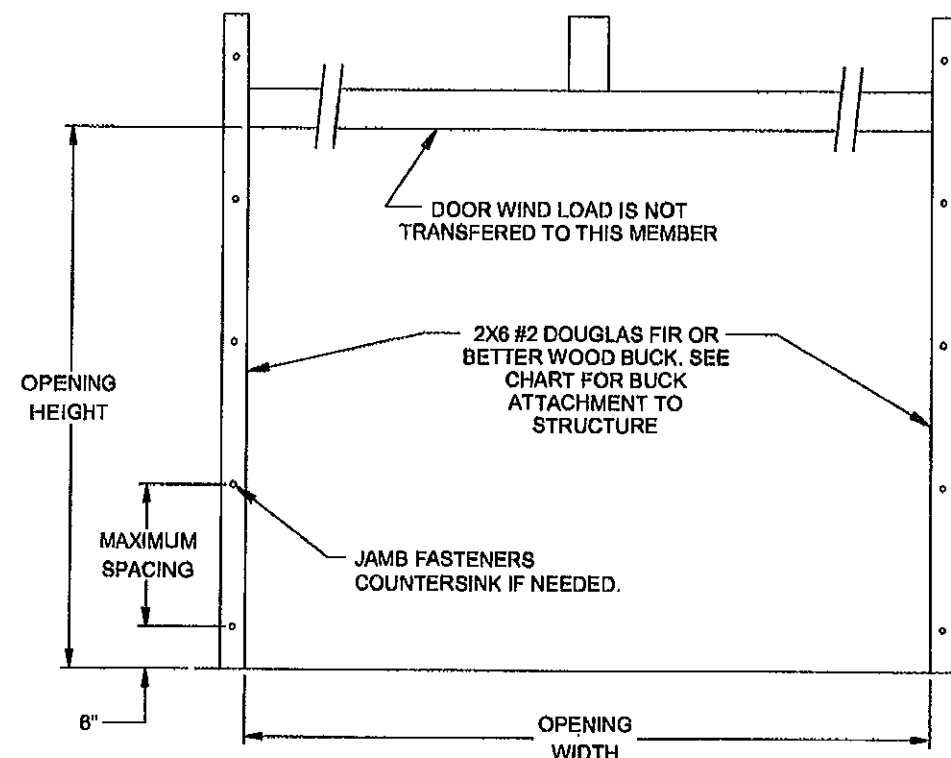
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 12-0517.17
Expiration Date 03/10/2016
By *[Signature]*
Miami Trade Product Control

Approved as complying with the
Florida Building Code
Date 03/10/2011
NOA# 10-0921.06
Miami Trade Product Control

By *[Signature]*



1-27-11



JAMB ATTACHMENT

1/4" ITW BULDEX TAPCON				
JAMB TYPE	EMBEDMENT	EDGE DISTANCE	ALLOWABLE TENSION LOAD	MAXIMUM ON CENTER SPACING
2000 PSI CONCRETE	1-3/4"	2-1/2"	505	18-1/2"
3000 PSI CONCRETE	1-3/4"	2-1/2"	550	18"
5/16" ITW BULDEX TAPCON				
3000 PSI CONCRETE	1-3/4"	2 3/16"	563	18-1/2"
POWER ANCHOR - 3/8" WEDGE ANCHOR				
2000 PSI CONCRETE	1-5/8"	1-7/8"	360	11-3/4"
	3"	1-7/8"	768	25-1/4"
5/16" LAG SCREW				
SPRUCE, PINE, FIR (G = .42)	1-1/2"	1-3/4"	307	10"
DOUGLAS FIR (G = .46)	1-1/2"	1-3/4"	352	11-1/2"
SOUTHERN YELLOW PINE (G = .55)	1-1/2"	1-3/4"	460	15"
3/8" LAG SCREW				
SPRUCE, PINE, FIR (G = .42)	1-1/2"	1-3/4"	352	11-1/2"
DOUGLAS FIR (G = .46)	1-1/2"	1-3/4"	403	13-1/4"
SOUTHERN YELLOW PINE (G = .55)	1-1/2"	1-3/4"	528	17-1/4"
5/16 X 5/8 THREAD CUTTING SCREW				
STEEL A 36	3/16"	1/2"	1048	34-1/2"

JAMB ATTACHMENT NOTES

- 1/4" DIAMETER ANCHORS REQUIRE 5/8" MIN. O.D. STEEL WASHER.
- 5/16" AND 3/8" DIAMETER FASTENERS REQUIRE 7/8" MIN O.D. STEEL WASHER.
- MAXIMUM POSITIVE LOAD PER JAMB = (18'-2" X 40.0 PSF) / 2 = 363 LBS PER FOOT
- MAXIMUM NEGATIVE LOAD PER JAMB = (18'-2" X 52.0 PSF) / 2 = 472 LBS PER FOOT.
- DESIGN OF THE SUPPORTING STRUCTURE SHALL BE THE SOLE RESPONSIBILITY OF THE BUILDING DESIGNER AND SHALL BE DESIGNED FOR THE JAMB LOADS LISTED IN NOTES 3 AND 4.

REV.	DESCRIPTION	ECH. NO.	DATE	SCALE: NOTED OR NONE	DRAWN BY: G.WEEDKIND	CHECKED BY: QW	DATE: 02/26/10	REV. NO.	RAYNOR GARAGE DOORS BOX MEDAL INTERLOCK SYSTEM 19001	TITLE: SPEC. WIND LOAD STEELFORM STANDARD 24 GAUGE AND 20 GAUGE	NO. P-3313	SHEET 4 OF 4	REV. C
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